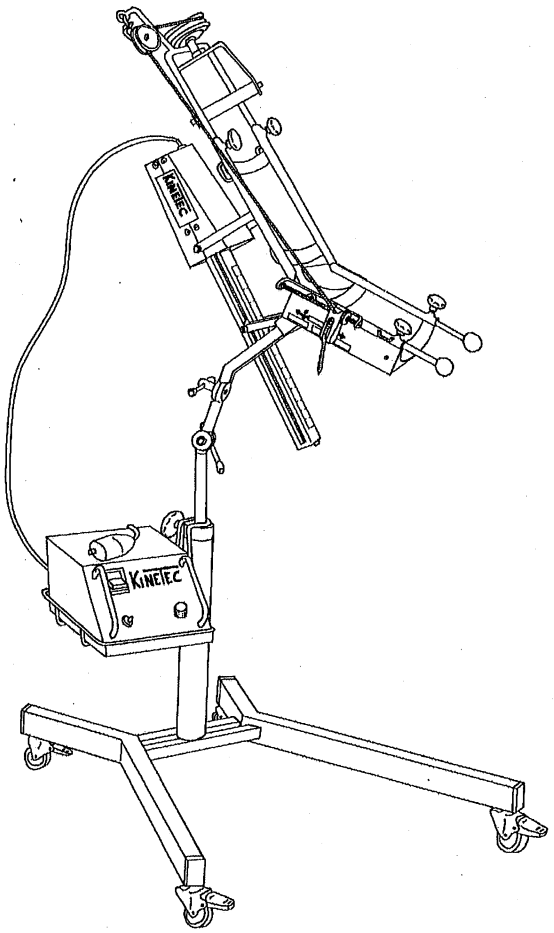
Service Manual



6080 S13

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ISO 9001 EN 46001

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POSSIBLE FAULTS ON THE 3090 - 6080 - 7081 - 9081

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1) THE PILOT LIGHT GREEN IS NOT ON

The same procedure of the 3080.

2) THE PILOT LIGHT GREEN IS ON, THE UNIT DOESN'T WORK

- a) Test input power point 23-24 on terminal block :
  - You should read 22 VAC.

- b) Test exit power at points 21-22. You should read :
  - 22 VDC at maximum setting of speed control.
  - 6,5 VDC at minimum setting of speed control.

This test must be done when the red pilot light is OFF.

- c) If these readings are not correct, change the PCB.

- d) Check with ohmeter the cables between PCB and the Female socket.

- e) Check connection lead between box and unit is sound.

- f) Check motor readings accross terminals should read 20 VDC or 6 VDC.

If these readings are not correct, change the micro-switches.

3) THE MOTOR TURNS BUT THE UNIT DOES NOT WORK THE UNIT STAY IN EXTENSION

Check the rubber coupling between motor and drive

4) THE UNIT REVERSES ITSELF ALL THE TIME IN FLEXION OR EXTENSION

For 3090

The unit works in flexion but doesn't work in extension : turn clockwise the potentiometer P3 about 5 degrees to increase the load.

The unit works in extension but doesn't work in flexion : turn the potentiometer load on the front plate of the control box.

For 6080 7081 9081

The unit works in flexion but doesn't work in extension : turn the clockwise about 5° the potentiometer P3.

The unit wors in extension but doesn't work in flexion : turn clockwise about 5° the potentiometer P2.

BE CAREFUL : you must adjust these potentiometer with on insulated drive screw.

5) THE RED PILOT LIGHT IS ON

- Connect hand control unit.

- Check wiring of hand controller.

- Check wiring inside the control box.

If these readings is not correct, change the PCB.

FOR 3090-6080-7081-9081

After approximately 3000 hours or 3 years use, the micro switches should be changed.

FOR 3090-6080-7081

After approximately 7000 hours, the motor should be changed. We dissuade you to change the carbons because when they are worn out, the motor has turned during 7000 hours and it is preferable to change it.

FOR 9081

After approximately 5000 hours, the carbons should be changed.

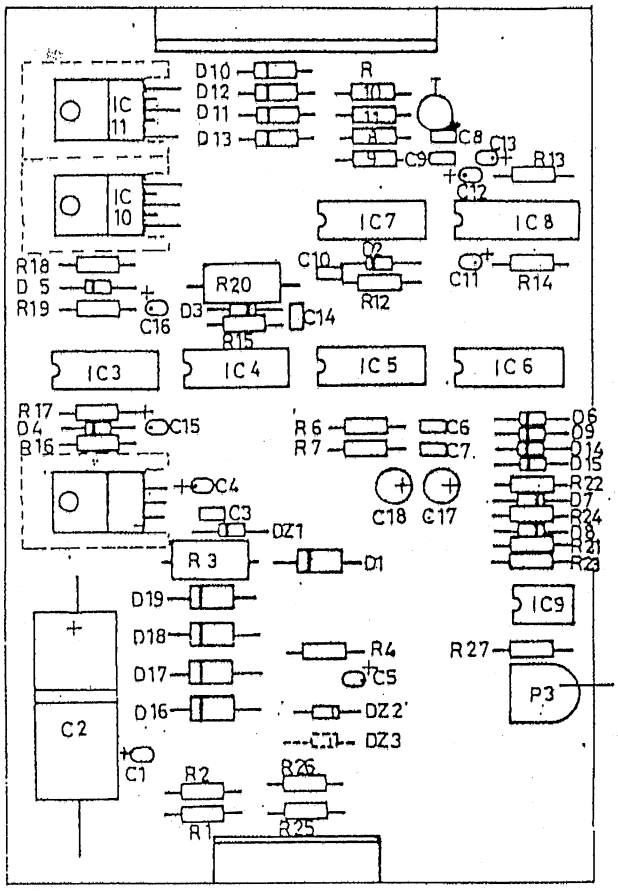
6) POSSIBLE FAULTS ON THE PCB

The unit stops during its work and starts when you switch ON OFF :
- Change IC11-IC10 or set up à condensator 1MF on IC10-IC11.

The red pilot light is always ON and the unit doesn't work :
- Change IC11-IC10 or IC7-T1.

If you read input point 23-24 = 20 AC and exit point 21-22 = 0 VDC :
- Change IC10-IC11-IC3-IC4-IC5-IC6-IC7-IC8-C4 or return the PCB for repair in COGEMO.

3090

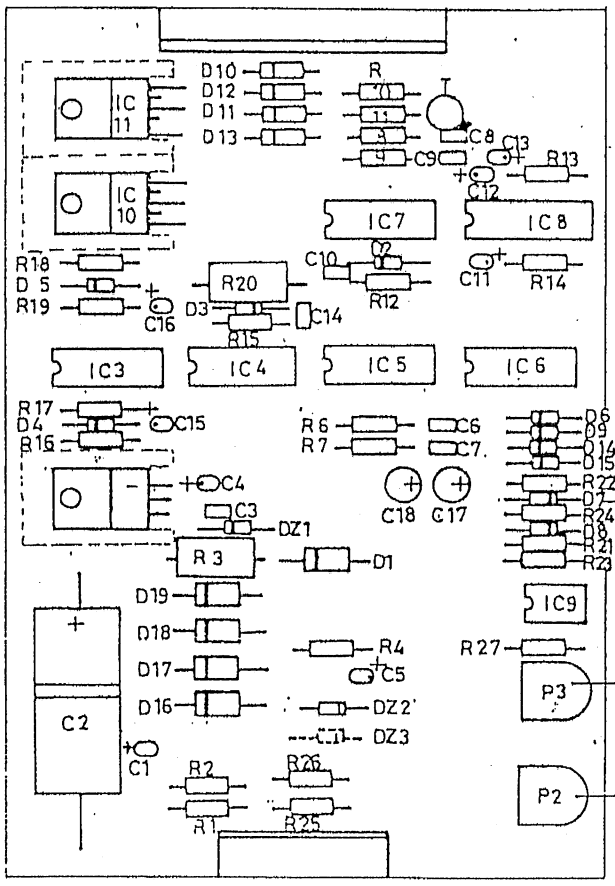


EXTENSION

LAS 8500P

CAPACITOR
1 μF (micro farad)

6080-7081-9081



INTEGRATES CIRCUITS FONCTION
3090 - 6080 - 7081 - 9081

IC 1 : Voltage 12 Volts regulator for integrate circuits

IC 2 : Voltage variable regulator for the motor

IC 3 : Circuit allowing the motor to work if the hand switch is not OFF, if there is voltage

IC 4 : Flip-flop circuit for the flexion or extension

IC 5 : Drive of the driver's LAS 8500 P

IC 6 : Reverses for the load fonctions and there is voltage

IC 7 : Gates using for the Start / Stop

IC 8 : Monostable used in the inversion load or Start / Stop

IC 9 : Voltage amplifier for to check the loads

IC10 : Driver for the motor

IC11 : Driver for the motor

SPARE PARTS NECESSARY FOR REPAIR 3090 6080 7081

1	circuit board 6080 7081 9081	9080.144
1	circuit board 3090	3090.029
2	cable	6080.299
1	moteur	4000.112
2	remstrap color	3090.013
1	pad for 3090	50000901
	6080	50000646 and 5000654
	7081	50000935
	9081	50000919
1	sliding stop assy assembled	3090.044
1	cursor support	3090.032
1	coupling	4000.120
1	micro switch assembly for 3090, 7081, 9081	3080.057
	6080	6080.237
1	strap stop reverse	4000.134
2	IC10	10004026

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